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## CLAIMS:

1	1. A	method of receiving signals, said method comprising:
2	changing	filtering characteristics on a main signal path as a function of at least
3	one amplitude in	an adjacent band relative to a frequency band of operation on said
4	main signal path.	

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2. The method of claim 1 wherein said changing comprises:
using an amplitude in said frequency band of operation on said main signal
path to change said filtering characteristics on said main signal path.

3. The method of claim 1 comprising:

receiving analog signals on said main signal path;

producing a replica of said analog signals on a band edge detection path;

dividing said analog signals on said band edge detection path onto an upper edge detection path and a lower edge detection path;

producing an upper edge amplitude for said analog signals at an upper edge relative to said frequency band of operation on said upper edge detection path and a lower edge amplitude for said analog signals at a lower edge relative to said frequency band of operation on said lower edge detection path.

4. The method of claim 2 comprising:

providing a replica of said analog signals on a detection path

producing an amplitude for said analog signals in said frequency band of operation on said detection path; and

changing said filtering characteristics of said filter on said main signal path based on a comparison between said at least one amplitude for said adjacent band and said amplitude for said frequency band of operation.

5. The method of claim 1 wherein said changing comprises:



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switching as a function of said at least one amplitude for said adjacent band between a plurality of filters having different filtering characteristics.

The method of claim 3 wherein said receiving and producing comprises:

receiving analog signals at radio frequency on said main signal path; and producing a replica of said radio frequency analog signals on a band edge detection path.

7. The method of claim 1 wherein said changing comprises:

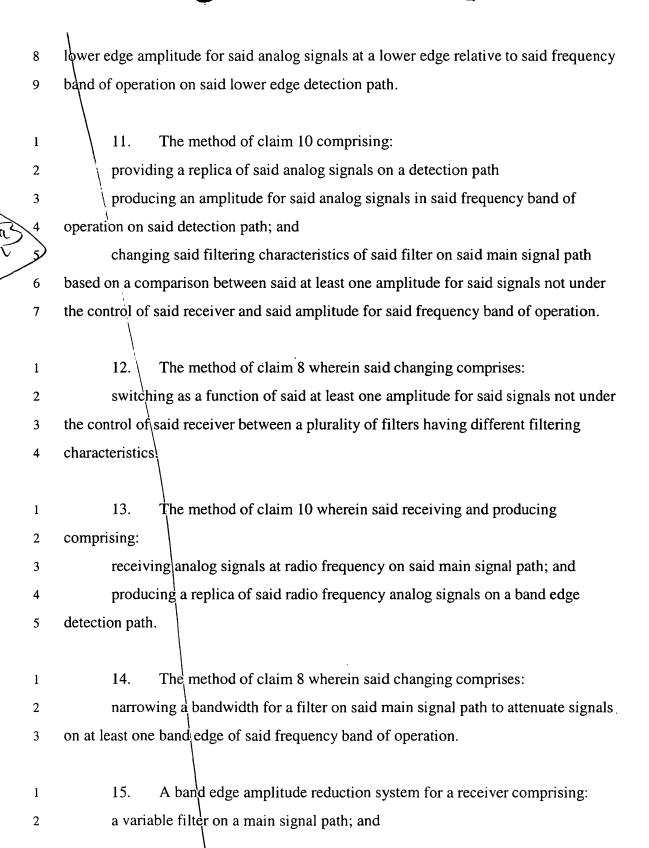
narrowing a bandwidth for a filter on said main signal path to attenuate signals
on at least one band edge of said frequency band of operation.

A method of receiving signals, said method comprising:

changing filtering characteristics on a main signal path at at least one band edge of a frequency band of operation of a receiver depending on at least one amplitude for signals not under the control of said receiver.

- 9. The method of claim 8 wherein said changing comprises: using an amplitude of said frequency band of operation on said main signal path.
- 1 10. The method of claim 8 comprising:
  2 receiving analog signals on said main signal path;
  3 producing a replica of said analog signals on a band edge detection path;
- dividing said analog signals on said band edge detection path onto an upper edge detection path and a lower edge detection path;
  - producing an upper edge amplitude for said analog signals at an upper edge relative to said frequency band of operation on said upper edge detection path and a







processing circuitry changes filtering characteristics of said variable filter as a function of at least one amplitude for an adjacent band and/or signals not under the control of said receiver.

The system of claim 15 wherein said processing circuitry changes said variable filter characteristics on said main signal path as a function of at least one amplitude for said adjacent band and/or said signals not under the control of said receiver and an amplitude for said frequency band of operation on said main signal path.

17. The system of claim 15 comprising band edge detection circuitry comprising:

a band edge detection path receives a replica of analog signals on said main signal path;

a signal divider divides said analog signals on said band edge detection path onto an upper edge detection path and a lower edge detection path; and

detection circuitry receives said signals on said upper edge detection path and said lower edge detection path and produces to said processing circuitry an upper edge amplitude for said analog signals at an upper edge relative to said frequency band of operation and a lower edge amplitude for said analog signals at a lower edge relative to said frequency band of operation.

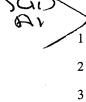
18. The system of claim 16 comprising:

a detection path receives a replica of said analog signals from said main signal path;

detection circuitry receives said analog signals from said detection path and produces an amplitude for said analog signals in said frequency band of operation on said detection path; and



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said processing circuitry changes said filtering characteristics of said filter on said main signal path based on a comparison between said at least one amplitude for said adjacent band and/or said signals not under the control of said receiver and said amplitude for said frequency band of operation.

- 19. The system of claim 15 wherein said processing circuitry produces control signals to change said filtering characteristics of said variable switch by switching between a plurality of filters having different filtering characteristics as a function of said at least one amplitude for said adjacent band and/or said signals not under the control of said receiver.
- 20. The system of claim 15 wherein said processing circuitry produces control signals to narrow a bandwidth for said variable filter on said main signal path to attenuate signals on at least one band edge of said frequency band of operation.